

INTERNATIONAL SEARCH REPORT

PCT/JP2005/010200

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L27/26 H04M11/06 H04B3/50 H04B3/54 H04L5/02		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04L H04M H04B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal , PAJ, INSPEC		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 5 991 269 A (WILLIAMSON ET AL) 23 November 1999 (1999-11-23) the whole document	1-6, 29
A	US 5 832 387 A (BAE ET AL) 3 November 1998 (1998-11-03) abstract column 4, line 40 - line 60	1-6, 29
P, X	WO 2005/029803 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD; WAKISAKA, TOSHIYUKI; MAKI, MA) 31 March 2005 (2005-03-31) the whole document	1-6, 29
<div style="display: flex; justify-content: space-between;"> D Further documents are listed in the continuation of box C <input checked="" type="checkbox"/> Patent family members are listed in annex </div>		
<div style="display: flex;"> <div style="width: 50%;"> <p>* Special categories of cited documents</p> <p>'A' document defining the general state of the art which is not considered to be of particular relevance</p> <p>'E' earlier document but published on or after the international filing date</p> <p>'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>'O' document referring to an oral disclosure, use, exhibition or other means</p> <p>'P' document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 50%;"> <p>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>'X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>'Y' document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>'&' document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center;">6 September 2005</div>		Date of mailing of the international search report <div style="text-align: center;">12 a t, 05</div>
Name and mailing address of the ISA European Patent Office, P B 5818 Patentlaan 2 NL - 2280 HV RIJSWIJN Tel (+31-70) 340-2040, Tx 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer <div style="text-align: center;">Bauer, F</div>

INTERNATIONAL SEARCH REPORT

International application No
PCT/JP2005/010200

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons

- 1 ☐ Claims Nos
because they relate to subject matter not required to be searched by this Authority, namely
- 2 ☐ Claims Nos
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically
- 3 ☐ Claims Nos
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims
- 2 ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee
- 3 ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.
- 4 ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.

1-6, 29

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest
- ☐ No protest accompanied the payment of additional search fees

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6,29

Claims 1 and 29 (claims 1 and 29 are considered to be included in group 1, but are de facto part of every group) relate to communication apparatus and method for executing a wired communication using a plurality of sub carriers, comprising:

a transmission signal generator;
a transmission signal controller for controlling a transmission power of the transmission signal generated by the transmission signal generator based on a radiation power in a transmission line in correspondence with a frequency of the sub carrier; and
a transmitter for transmitting the transmission signal the transmission power of which is controlled by the transmission signal controller via the transmission line.
Claims 2-6 further relate to different ways of reducing the power of radiating sub carriers.

2. claims: 7-8

Claims 7-8 relate to selecting a radiation power dependent modulation.

3. claims: 9-14

Claims 9-14 relate to generating the transmission signals based on the transmission data and the radiation power.

4. claims: 15-20 and 27-28

Claims 15-20 and 27-28 relate to different implementation of a radiation power detector.

5. claim: 21

Claim 21 relates to the transmission power of all subcarriers is intermittently put constant for measuring the radiation power signal.

6. claims: 22-23

Claims 22 and 23 relate to the radiation power indicating signal is acquired only once or periodically.

7. claim: 24

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Claim 24 relates to the transmission line is a power line.

8. claims: 25-26

Claims 25-26 relate to the transmission uses OFDM.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5991269	A	23-11-1999	CA	2280995 A1	15-03-2000
			EP	0987865 A2	22-03-2000
US 5832387	A	03-11-1998	GB	2300546 A	06-11-1996
			JP	8307385 A	22-11-1996
			KR	155818 B1	16-11-1998
WO 2005029803	A	31-03-2005	US	2005078803 A1	14-04-2005